

## Claims

- [c1] What is claimed is:
1. A method for synchronizing a hyperframe number (HFN) between peer radio bearers (RBs) respectively supported by a user equipment (UE) and a Universal Terrestrial Radio Access Network (UTRAN), the peer RBs created by a Radio Bearer Setup procedure performed in conjunction with a Serving Radio Network Subsystem (SRNS) relocation procedure, the method comprising:  
sending a Radio Bearer Setup message from the UTRAN to the UE, the Radio Bearer Setup message indicating that SRNS relocation is to be performed and that a new RB is to be established in a first domain;  
in response to the Radio Bearer Setup message, the UE assigning a first START value to a START\_VALUE\_TO\_TRANSMIT variable according to the HFNs of all established RBs in the first domain;  
the UE utilizing the START\_VALUE\_TO\_TRANSMIT variable to set an HFN of the new RB;  
in response to the Radio Bearer Setup message, the UE generating a START list containing a plurality of entries corresponding to a plurality of domains, the plurality of domains including the first domain;  
the UE filling the entries with corresponding START values, wherein the UE synchronizes the entry corresponding to the first domain to hold a value that is identical to the value of the START\_VALUE\_TO\_TRANSMIT variable;  
in response to the Radio Bearer Setup message, the UE composing a reply message, the reply message including the START list; and  
the UE sending the reply message to the UTRAN.
  - [c2] 2. The method of claim 1 where the UE assigns the first START value to the entry corresponding to the first domain in the START list.
  - [c3] 3. The method of claim 1 where the UE assigns the START value of the entry in the START list corresponding to the first domain to the START\_VALUE\_TO\_TRANSMIT variable.
  - [c4] 4. A wireless device comprising a central processing unit (CPU) in electrical communications with a memory, the memory comprising program code for

implementing the method of claim 1.

[c5] 5. A method for synchronizing a hyperframe number (HFN) between peer radio bearers (RBs) respectively supported by a user equipment (UE) and a Universal Terrestrial Radio Access Network (UTRAN), the peer RBs created by a Radio Bearer Setup procedure performed in conjunction with a Serving Radio Network Subsystem (SRNS) relocation procedure, the method comprising:

sending a Radio Bearer Setup message from the UTRAN to the UE, the Radio Bearer Setup message indicating that SRNS relocation is to be performed and that a new RB is to be established in a first domain;

in response to the Radio Bearer Setup message, the UE assigning a first START value to a START\_VALUE\_TO\_TRANSMIT variable according to the HFNs of all established RBs in the first domain;

the UE utilizing the START\_VALUE\_TO\_TRANSMIT variable to set an HFN of the new RB;

in response to the Radio Bearer Setup message, the UE generating a START list containing a plurality of START values corresponding to a plurality of domains, the plurality of domains including the first domain;

in response to the Radio Bearer Setup message, the UE composing a reply message, the reply message including the START list as a first information element (IE) and including the first START value of the START\_VALUE\_TO\_TRANSMIT variable as a second IE;

the UE sending the reply message to the UTRAN; and

the UTRAN utilizing the second IE to set a corresponding HFN for the new RB.

[c6] 6. A wireless device comprising a central processing unit (CPU) in electrical communications with a memory, the memory comprising program code for implementing the method of claim 5.